L 17734-66 ACC: NR: AT6006177

2

Lalline of antimony as a reference. The CdSb, Cd3Sb2, and Cd,Sb3 were prepared by fusion of stoichiometric amounts of 99.99% pure cashium with antimony containing less than 2.10 36 contaminants. The CdS was prepared by precipitation with pure H28 from CdSO4-acetic acid solution. The CdO was prepared by decomposition of fresh Cd(CO3)2 at 550°C. It was found that the Lg15,2-emission band and the LIII-absorption limit of cadmium in CdSb, Cd3Sb2, Cd4Sb3, and CdS are shifted toward lower wave region in comparison with the corresponding bands of metallic cadmium. No such shift was observed in the case of CdO. It was found that the magnitude of this shift per unit of effective valence declines with increasing ionic character of the chemical bond. In the semiconducting compounds, this shift becomes successively smaller in the following order: CdSb, Cd3Sb2, Cd4Sb3, CdS, and CdO. The energetic gap between the LIII-absorption limit and the Lg15.2-emission band was found to be proportional to the width of the forbidden zone of a given compound. For the compounds in question, this gap increases with increasing ionic character of the chemical bond in a compound. The Lg15,2-emission of Cd in its semiconducting compounds and in the metal are shown. Orig. art. has: 5 figures, 3 tables.

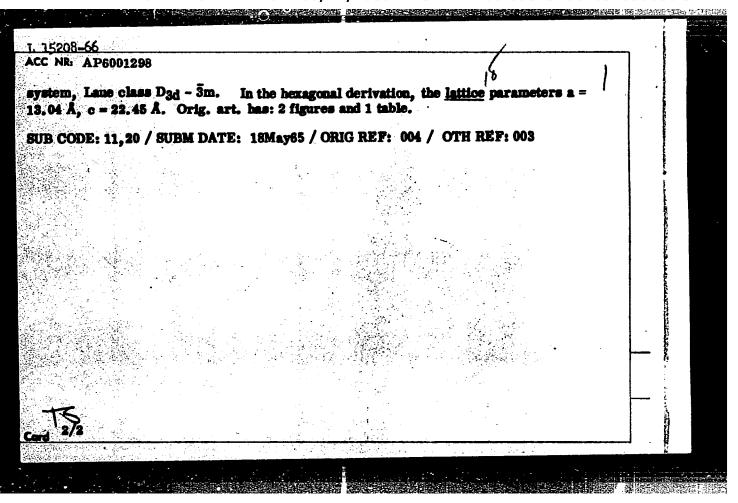
SUB CODE: 20, // SUBM DATE: 31May65/

ORIG REF: 005/

OTH REF. OOR

Carrel

L_15208_66 EMT(m)/T/EMP(t)/EMP(b) UP(c) JD ACC NRI AP6001298 SOURCE CODE: UR/0363/65/001/008/1323/1325 AUTHOR: Ugay, Ya. A.; Ignat'yev, N. A.; Marshakova, T. A.; Aleynikova, K. B. ORG: Voronezh State University (Voronezhskiy gosudarstvennyy universitet) TITLE: Preparation of a single crystal of the intermetallic compound Cd48b3 and its SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 8, 1965, 1323-1325 TOPIC TAGS: cadmium compound, antimony compound, zone melting, single crystal growing ABSTRACT: In order to select a method for preparing Cd3Sb3 single crystals, thermographic and x-ray diffraction studies were carried out to determine the temperature and concentration limits of existence of this compound. Four thermal effects were observed on the heating curves of alloys containing from 25 to 51 wt. % Sb: the first (a small endothermic effect) could not be identified; the second (exothermic) corresponds to the conversion Cd4Sb3 --> 3CdSb + Cd; the third (298C) was due to the fusion of the cadmium eutectic; the fourth (438C) was the fusion of CdSb. Zone melting was found to be the most suitable method for preparing Cd4Sb3 single crystals. Despite the imperfect structure of the crystals obtained, their electric parameters were more interesting than those of polycrystalline samples, because ${
m Cd_4Sb_3}$ single crystals contain an excess of antimony, which causes a higher carrier concentration. The structure of the compound Cd4Sb3 was refined: it was found to belong to the trigonal UDC 546.48'221:548.55



MARSHALKOVICH, S.G., inzh.; GARAN, N.A., inzh.

Improvement of the feed system of BG-35 boilers. Energetik 13 no.6: 9-10 Je '65. (MIRA 18:7)

1. Krasnodarskiy neftepererabatyvayushchiy zavod.

MAISHAL, P.K.

Synthetic diamonds used in enterprises of the force 'sk vistrict of Kiev. Machinostroitel' in.10:5 (* 'c4. (MIE. 17:11))

1. Sekretar' Podol'skogo rayonnego komiteta Konconisticheskoy partii Ukrainy, Kiyev.

MARSHAL, V.P.; KHAMISH, L.Ya.; BUNINA, O.F. (Kiyev)

Standardization of the parts and assemblies of children's clothers. Shvein. prom. no. 6:34-38 N-D '65. (MIRA 18:12)

8/ 0190/64/006/003/0561/0567

ACCESSION NR: AP4030376

AUTHORS: Marshal', Zh.; Marshal', Ye.

TITIE: Utilization of dielectric properties of rod-like macromolecule solutions for determining their length and polydispersity

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 3, 1964, 561-567

TOPIC TAGS: macromolecule, dielectric property, polydispersity, polypeptide, monomer unit, chloroform, electric field, polymerization coefficient

ABSTRACT: A simple theoretical interpretation was given for dilute polymer solutions (less than 1% concentration) with continuous and narrow molecular weight distribution ($M_{\rm W}/M_{\rm h} \le 1.25$). It was assumed that the polymerization coefwicient was large. The change in dielectric permeability \mathcal{E}^{-1} is given, by

$$\frac{\Delta \varepsilon'}{\Delta \varepsilon_0} = \int_0^\infty \frac{n^2 f(n) dn}{1 + \omega^2 B^2 n^4} / \int_0^\infty n^2 f(n) dn$$

where f(a) dn = macromolecule distribution with polymerization coefficient Cord 1/2

ACCESSION NR: AP4030376

between n and n+dn. The dielectric absorption observed in these solutions upon applying an electric field was investigated in polypeptides poly- / -benzyl-L-glutamate (PBG) and poly-DL-phenylalanin in chloroform with the addition of 0.5% formamides. 9, /Mn measurements (using the dielectric absorption method) agreed well with the coefficient of diffusion measurements. Extrapolating the hydrodynamic lengths of the PBG macromolecules to degree of polymerization n = 1, a value of 2 was found for the monomer unit length 10 = 1/n instead of the value 1.5 Å predicted theoretically. This anomaly is explained by the fact that the molecules in a chloroform solvent possess a 3-spiral conformation, whereas this spiral (or helix) is characterized by a finite flexibility corresponding to a persistent length on the order of 200 Å. Orig. art. has: 21 formulas and 1 figure.

ASSOCIATION: Tsentr issledovaniy makromolekul, Strasburg, Frantsiya (Macromolecule Research Center)

SUBMITTED: 16Sep63

DATE ACQ: 07may64

NCL: 00

SUB CODE: QC

10. REF SOV: 000

OTHER OLA

Cord 2/2

5/190/62/004/006/025/026 3110/5138

1. AUTHORS: Jolkenshteyn, L. V., Kol'tsov, A. I., .arshal', Ch.

TITLE:

Investigation of polymers by means of nuclear magnetic resonance. III. Themical reactions in colutions of poly-y-benzyl-L-plutamate in trifluoroacetic acid

PERICUICAL:

Iyzokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962,

944-947

TEAT: The behavior of poly-y-benzyl-L-glutamate (1) in solutions was investigated with regard to the transition from spirals to lumps. The nuclear magnetic resonance spectra of 1 (molecular weight 150,000) vere obtained in mixtures of benzene and trifluoro acetic acid (II) with a . JNM-3 spectrometer at 40 kcps. The spectra remained unchanged with an 80% volume increase of Ii. With further increase a new line appears $\delta = 60$, while that of the methylene group of I bonded to the phenyl decreases at $\delta = 62$. The same occurs for solutions of I in pure II. Hydrolysis of I is assumed, the molecules losing the rigid spiral shape:

Card 1/3

CIA-RDP86-00513R001032530008-9" **APPROVED FOR RELEASE: 06/14/2000**

5/190/62/004/006/025/026 B110/B138

Investigation of polymers by means ...

The poly-L-glutamic acid formed thereby remains in solution, the benzyl alcohol with II forms an emulsified ester:

CH₂OH + CH₃COCH
$$\longrightarrow$$
 \bigcirc -CH₂CCF₃ + H₂O, which is saponified by CHCl₃: \bigcirc -CH₂OCF₃ + H₂O \longrightarrow CH₂OH + CF₃COOH. The rate of Ohenzy:

hydrolysis of I is much lower than that of the esterification of benzyl Card 2/3.

Investigation of the acre by means... \$\frac{3}{190}\frac{62}{000}\frac{

8/ 0190/64/006/003/0561/0567

ICCESSION NR: AP4030376

AUTHORS: Harshal', Zh.; Harshal', Ye.

TITIE: Utilization of dielectric properties of rod-like macromolecule golutions for determining their length and polydispersity

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 3, 1964, 561-567

TOPIC TAGS: macromolecule, dielectric property, polydispersity, polypeptide, monomer unit, chloroform, electric field, polymerisation coefficient

ABSTRACT: A simple theoretical interpretation was given for dilute polymer solutions (less than 1% concentration) with continuous and narrow molecular weight distribution (My /Mn ≤1.25). It was assumed that the polymerization coefficient was large. The change in dielectric permeability & is given, by

$$\frac{\Delta e'}{\Delta e_0} = \int_0^\infty \frac{n^2 f(n) dn}{1 + \mathbf{e}^2 B^2 n^2} / \int_0^\infty n^2 f(n) dn$$

where f(n) dn = macromolecule distribution with polymerization coefficient

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032530008-9"

ACCESSION NR: AP4030376

between n and n+dn. The dielectric absorption observed in these solutions upon applying an electric field was investigated in polypeptides poly- / -benzyl-L-glutamate (PBG) and poly-DL-phenylalanin in chloroform with the addition of 0.5% formanides. H₂ /M_n measurements (using the dielectric absorption method) agreed well with the coefficient of diffusion measurements. Extrapolating the hydrodynamic lengths of the PBG macromolecules to degree of polymerization n = 1, a value of 2 was found for the monomer unit length 1₀ = 1/n instead of the value 1.5 Å predicted theoretically. This anomaly is explained by the fact that the molecules in a chloroform solvent possess a 3-spiral conformation, whereas this spiral (or helix) is characterized by a finite flexibility corresponding to a persistent length on the order of 200 Å. Orig. art. has: 21 formulas and 1 figure.

ASSOCIATION: Tsentr issledovaniy makromolekul, Strasburg, Frantsiya (Macro-molecule Research Center)

SUBMITTED: 16Sep63

DATE ACQ: 07may64

CL: 00

SUB CODE: OC

NO. REF SOV: 000

OTHER! OIL

CZECHOSLOVAKIA/Cultivated Plants - Ornamental.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15925

Author

: Fr. Marshalek

Inst Title

: The Cyclamen, Cyclamen persicum.

(Tsiklamen - Cyclamen persicum).

Orig Pub

: Ovocnar. a zelimar., 1957, No 2, 52.

Abstract : No abstract.

Card 1/1

MARSHALEK, Miroslav

Experience in organizing mass analyses of carbon in steels. Zav.lab. 28 no.10:1266-1267 62. (MIRA 15:10)

1. Traktornyy i podshipnikovyy zavod v g.Brno, Chekhoslovatskoy Sotsialisticheskoy Respubliki.

(Carbon—Analysis)

CIA-RDP86-00513R001032530008-9 "APPROVED FOR RELEASE: 06/14/2000

MARSHALKIN,

SCV/129-58-9-1/16

Kidin, I. N., Doctor of Technical Science, Professor: AUTHORS:

Astaf yeva, Ye. V. and Marshalkin, A. N., Ingineers

Features of the Process of Tempering After High. TITLE:

Frequency Hardening (Osobennosti protsessa otpuska posle

vysokochastotnoy zakalki)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 5.

pp 2-12 + 1 plate (USSR)

ABSTRACT: "Self tempering", the duration of which is a few seconds. is in many cases convenient and economical (Refs 1 and 2).

However, this type of heat treatment has not been used adequately due to non-availability of the necessary automatic control and metering apparatus. Of great interest are the results relating to combination of electric tempering with electric hardening (Refs 3-5) An important condition of electric tempering is that uniform heating should be achieved, to the desired depth, without overheating of the surface. In earlier work of

the authors (Refs 6-10) it was found that

if the speed of heating for hardening is high, the

state of the austenite is characterised by a considerable

Card 1/8 non-uniformity in the carbon content as compared to

sov/129-58-9-1/16

Features of the Process of Tempering After High Frequency Hardening

austenite formed during ordinary slow heating. As a the austenite to result of this non-uniformity, martensite transformation during the cooling will take place within a wider temperature range; the nicro-volumes of the austenite which are most saturated (1th carbon become transformed into martensite at lower temperatures and later than the micro-volumes which are poor in carbon and for which the martensitic point is located at a more elevated temperature. The microvolumes of the martensite forming at a higher temperature may decompose during the further cooling of the mardening process forming martensite of a lower tetragonality and a finely dispersed carbide phase. A similar phenomenon for tempering after ordinary hardening was investigated in detail by Kurdyumov, G. V. and Oslon, N. (Ref 10) by In this paper the authors investigate X-ray methods. the changes in the structural state and the mechanical properties of a number of engineering and carbon tool steels during ordinary tempering in conjunction with regimes of high frequency hardening and the features of the Card 2/8 obtained structure. In the case of rapid induction heating

CIA-RDP86-00513R001032530008-9 "APPROVED FOR RELEASE: 06/14/2000

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Features of the Process of the Aria Lifter II

of steel prior to hardening, a concerta the companie cal can be created in the micro-volumes. Stud of this has uniformity by radiography methods has enable assult the fact that the distribution of the content to th of the induction besting may differ, dop and on the heating regime and the character of the initial structure. Micro-structures and micro-radiograms of Steel 10 marketed from 1100°C with various heating speed are represented in Fig.1 (plate). The structure is relatively unifor, in the case of slow heating, whilst with increasing the traspeeds the non-uniformity in the carbon distribution becomes much more pronounced. This was all confident by X-ray studies. The features of decomposition with tempering of the non-uniform martensite were also builded the graph Fig. 3 indicates the curves of the object of the (110) lines after tempering of speciment of the Steel 37 and, by comparing the appropriate curves it also that an increase in the heating appeal for the steel. that an increase in the heating speed for the will same temperature, e.g. 960°C. results in an include in the width of the line and consequently who have an arrepe

Card 3/8 in the non-uniformity. In Fig. 4 the changer are restore

Features of the Process of Tempering After High Process of the maximum carton concentration during Steel 40 which prior to Parisania, was leading speed of 130 C/sec from 920 and 960°C recurrence influence of low temperature to retrieve the influence of low temperature to retrieve the following properties after high frequency bardenia, by the continuous-succeentive method or along 35 Kh; for the impact tests, speciments of 11 were chosen in accordance with the suggestion of 11. V. Kudryavtsev (Ref 13). 100 and long speciment hardened using as a current source a tube small the heating speeds in the regions of place it were 50, 100, 200 and 400 C/sec for the tail records 900, 1000 and 1100°C. The tempering was effects and 60 minutes. From the tempered specime of the part of a length of 55 mm was cut out by the mechanical method and in this a 0.5 mm hourd and in through have been tested on an impact an impact of 10 kgm. The influence of 50 frequency hardening on the impact strength of 55 mm and impact an impact of 10 kgm. The influence of 50 frequency hardening on the impact strength of 55 mm.

Features of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the control of the Process of Tempering After High Frein in the Control of the Contr

is quite considerable as can be seen from all things; 5; in the case of Steel 40 a neutral speed of 50 C/sec will ensure an impact strength equal to the impact strength obtained after ordinal largering in tempering only if the tempering is effected at LoC C. Increase of the hardening temperature to 1000 and 11000 leads to a considerable decrease of the impact strength. However, an increase in the heating speed spins to hardening to 200 C, and particularly to 4000 C followed by tempering will ensure a considerable improve out of the combination of the toughness and to be seen the highest impact strength was obtained in the color of tempering at 2000 C for one hour after hardening from a temperature of 1000 C using a heating speed of MO. C/sec By using this regime an impact strength in after a limit followed by equal tempering. In Fig. the content is impact strength after hardening followed by lot to see the fundament tempering is graphed for the Steel 40 and increase from 920 C after heating at a rate of 170 C/sec. The larger card 5/8 strength was measured of strength notable measured of

Features of the Process of Tongering After High Franchis Com-

dokhn steel which were thested prior to harders. The current of 2.5 kc/sec, as herting ries of 10 7/20 to 970°C and, after horse, ing. they here is good for one hour at 120, 150 and 130°C seeparth by. For comparison the breaking strength was located to if specimens after orlinery hardering and her induction tempering. It can be seen from Fig.7 that the larger strength for induction bandering as well as well as well as trength for induction bandering temperature of the low temperature tempering. Specimes having fix 570°C after heating at a rate of 10 0/sec those an investigation in the breaking strength from 8 to 9.8 to a offer tempering at 120°C and to 11.7 toms after a period also investigated for medium and high temperature tempering for the Steels 40KhN and 40 KbG. Hardering from 1000°C followed by tempering ensures for the stall 40KhN the same properties as ordinary hardering following by tempering. However, hardening from 900°C with the same speed of heating and subsequent tempering in 100°C and 50°C with the same speed of heating and subsequent tempering in 100°C.

307/129-53-9-1/16

Features of the Process of Tempering After High Frequency Horaco

impact strength and hardness than after ordinary hardening and tempering. In the case of heating prior to hardening with a speed of 400 C/sec advantages compared to ordinary hardening are observed in the composition of hardening from 1000 and 1100°C; the impact strength will be lower in the case of hardening from 1200°C. The heating speed of 100°C/sec is inadvisable since for the chosen temperatures of hardening and subsequent tempering the impact strength will be lower than for ordinary hardening. For tempering temperatures exceeding 350°C the increase in hardness due to high frequency hardening does not remain conserved for the Steels 40KH and 40KhG. At higher tempering temperatures (up to 600°C) the hardness of high frequency hardened steel may in some cases be lower than of the same steel after conventional hardening which is obviously due to a difference in the kinetics of the processes of coagulation in steel hardened after induction heating. High frequency hardening does not suppress type I and type II temper brittleness. These are observed at the same tempering temperatures as for conventionally hardened steel.

Card 7/8

SOV/129-58-9-1/16 Features of the Process of Tempering After High Frequency Hardening

However, the impact strength at the temper britiseness temperatures is considerably higher for steels which were high frequency hardened under optimum heating regimes than for steels which were hardened by standard methods of heating. The here given experimental data indicate that there is a relation between the reclae if high frequency hardening and the subsequent tempering i.e. between the character of the distribution of carbon and the alloying elements after hardening and their redistribution after tempering, which has a considerable influence or the changes of the mechanical properties of hardened and tempered steel.

There are 7 figures and 16 references, 15 of which are Soviet, 1 English.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

1. Steel--Heat treatment 2. Tool steel--Heat treatment 3. Steel--Properties 4. Steel--Transformations 5. High frequency heating--Applications

Card 8/8

11710

23996 -/148/01/000/007/010/017 E111/E180

ACTHORS -

Kilin I N. and Marshalkin, A. N.

TTLU.

Investigation of the decomposition of heterogeneous marrowsite obtained on prenching after rapid heating

The state of the s

Is estimative smashill, which night varedency

Christian metallimrenya 1961 No.5, pp. 147-152

That the subject whose specify features particularly the boson scheduler whose specify features particularly the boson scheduler of advisor-to-de make existing ideas on tempering after ordinary hardening mappingable. I N. Kitin has shown (Ref. 1. Firska metalley a metallogedening V.3. No. 2, 1956, 299-305) that martensite crystals developed in steel hardened after rapid heating can have a relatively bigh carbon, entent, and he has also studied the effect of heating cares on carton distribution (Ref. 2. 1. N. Kidin Fizika metallog a metallogedening V.3. No. 2, 1956, pp. 306-308. Ref. 3, 1. N. Kidin, the distribution of Ref. 2. 1. N. Kidin, the distribution of Ref. 3 as af year. A N. Marchalkin Netallovedening a obrahetka metallog distribution and he concentry for a card 375.

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Investigation of the decomposition

3/148/f 17600/c05/010/015 *111/E180

given temperature for each heating rate the heterogeneity rising with increasing heating rate. The e and other to g. Ref r G.V. Kurdyumov, A. Isenson, Zh.T.E. 1970, No. 1, 41) observations show that steel subjected to definite high frequency hardening schedules consists of a large number of martensite crystals of increased carbon concentration which do not change on conling during quenching and of crystals of low carbon marrersite partially decomposed with precipitation of a highly dispersed carbide phase. This structural beterogeneity of martensite introduces several peculiarities into its decomposition-kinetics To elucidate these dilatometric experiments have been carried out and the effects of temperature and duration of tempering on electrical resistivity and coerdive force studied. 2.5-mm diameter wire test pieces of type 40 and Y8 (U8) steels were used. resistance heating was applied for heating to hardening Quenching was in brine at -d oc followed by cooling temperature in liquid nitrogen. A high-frequency dilatometer, of A V Panov design (Ref. 12: I.N. Kidin A V lanov, Zavodskaya laboratoriya, V 23. No.1. 1957) [Not described - Abstractor] was used with a magnification of 3×10^4 Dilatometric curves are shown in Card 2/5

 $\begin{array}{c} 23996\\ \text{S/148/61/000/005/010/015}\\ \text{Investigation of the decomposition} & \text{Ell1/E180} \end{array}$

Fig. 3 for type 40 steel after ordinary hardening from 870 °C (circles) and after hardening from 950 °C (with rapid heating) (squares) (abscissa in time, mins). The authors point out that under practical conditions the differences should be even more pronounced. The dilatometric results are confirmed by those of measurements of resistivity changes. The differences are greater at lower tempering temperatures. Qualitatively similar results were obtained with type 18 steel but differences were smaller. The decrease in tempering time or decrease in temperature for a given time, which this investigation shows to be possible with rapid heating to hardening temperature is advantageous both from the economic and steel quality aspects. The latter was studied on several structural carbon and allow steels. It was found that good mechanical properties are obtained only under strictly controlled hardening and tempering conditions. Rapid heating for hardening gives a better combination of hardness and plasticity, probably because of the greater extent of decomposition of the solid solution, preservation of its heterogeneity greater degree of dispersion and the distribution of precipitated carbide phase.

Card 3/5

Investigation of the decomposition

23996 S/148/61/000/005/010/015 E111/E180

For alloy steels the extent of alloying and distribution of alloying elements in the alpha-solution are also important, shows the R_c hardness and impact strength (kgm/cm²) as functions of tempering temperature for a steel with 0.6% C and 1% Cr for a tempering time of 15 minutes (Pat/Cek = deg/sec) (Curve 1 curve 2 - 85°/sec . 1000°. 10500 usual tempering : curve 4 - 400/sec Conditions represented by curve I evidently produce the optimum heterogeneity both for carbon and chromium, which in the subsequent tempering leads to better mechanical properties. Similar behaviour was observed with a 0.4% C, 4.2% W steel and other alloy steels. The authors emphasise the useful practical results from the application of induction hardening in heat treatment. There are 5 figures and 13 references: 11 Soviet, 1 German and 1 English. The English language reference reads as follows: Ref. 8; R.H. Aborn Metal Progress, No.6, V 68, 1955.

ASSOCIATION: Moskovskiv institut stali (Moscow Steel Institute)

SUBMITTED: January 21, 1961

Card 4/5

Mechanism of pearlite-austenite transformations under the effect of rapid heating. Izv. vys. ucheb. zav.; chern. met. 5 no.3: 136-143 '62. (MIRA 15:5) 1. Moskovskiy institut stali. (Steel--Heat treatment) (Phase rule and equilibrium)

CONTRACTOR OF THE PROPERTY OF

KIDIN, I.N.; MARSALKIN, A.N. [Marshalkin, A.N.]

Mechanism of perlite-austenite transformation in rapid heating.

Analele metalurgie 16 no.4:88-95 O-D '62.

ACC NR: AP5028578	SOURCE CODE: UR/0148/65/000/011/0136/0140
VTNOR: Kidin, I. W.; <u>Marsh</u> Hisonov, Yu. M.; Kachapin, A	alkin, A. N.; Gokhberg, Ya. A.; Marchenko, V. Z.; 40
RG: Noscow Institute of St	eel and Alloys (Moskovskiy institut stali i splavov)
T CATOON-Steel Wire	llurgiya) no. 11, 1965, 136-140
ne strength and plasticity (ire, rupture strength, plasticity, metal drawing, metal advance, metal drawing, metal action, utilized attention, utilized attention attention for improving of carbon-steel wire by combining its thermomechanical
ies that might be encountered eformation by drawing (possi- ncluded deformation of the a eated by the electrocontact	and cold deformation by drawing In view of the difficul- ed when thermomechanical treatment is combined with ibility of rupture, etc.), the thermomechanical treatment austenite by rolling prior to sorbitizing. The wire was method at the rate of 50 and 400°C/sec prior to its sor-
60% reduction of area) the	strength of 2.5-mm diameter wire proved to be 28 kg/mm ² tional patenting, and there was also some increase in

	P5028578				5	
and the for wire follow draft. When some 110% h that the wi instead of the need of makes it po conventions	mation of a poing its TMO the draft resigner than important to be bent 8-12 times. The amploying the saible to obtal patenting an	olygonal struct olygonal struct ne ultimate struct aches 84%, ulti mediately after t 25-28 times in his new method a patenting pro- ain a wire with and cold drawing	rength continuinate strength TMO. The implicate of 8-1 of producing ocess based on higher mechas, increases b	phase. On co ally increase rises to 26 rovement in p 0 times and high-atrengt the use of nical proper	ld drawing of swith incres with incres of kg/mm ² , whice plasticity is twisted 33-35 h wire dispensional and saltties than followed and the 12 or 3 t	patented sing h is such times ses with bathe, lowing sate of
heat treats has: 2 tabl	ent and marked es, 4 figures.	ily expands the	possibilitie	s for its au	tomation. Orig	s. art.
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L 32975-66 EWI(m)/EWP(k)/T/EWP(w)/EWF(t)/ETI IJP(r ID/HW SOURCE CODE: UR/0148/66/000/001/0141/0144
WINDER Kidin, I. N.; Marshalkin, A. N.; Mizonov, Yu. M.; Kachapin, A. A.
Manager Institute of Steel and Alloys (Moskovskiy institut Staff I Spidior)
TITLE: The use of electrothermomechanical working in the production of high-strength
wire 1
SOURCE: IVUZ. Chernaya metallurgiya, no. 1, 1966, 141-144 TOPIC TAGS: electric power source, hot working, high strength metal, drawing, mechanic-
ABSTRACT: A study was done on the electrothermomechanical (etmo) processing of steel ABSTRACT: A study was done on the electrothermomechanical (etmo) processing of steel wires. Micrographs of etmo wires after tempering showed oriented carbides in the working direction while the deformed austenite exhibited fragmented grains with an oriented ing direction while the deformed austenite exhibited fragmented grains with an oriented substructure characteristic of polygonized metals. For 1 mm diameter wires, strength substructure characteristic of polygonized metals. For 1 mm diameter wires, strength substructure characteristic of polygonized metals. For 1 mm diameter wires, strength levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as high as 260 kg/mm ² were obtained after etmo, with reductions in area of 40 to levels as
Card 1/2

L 32975-66

ACC NR: AP6017521

about 100 kg/mm²/higher than for ordinary quench and temper treatments, due to the suppression of both carbide coagulation and recrystallization. Also, a beneficial structure orientation resulted as evidenced by x-ray patterns. Because the rapid heating maintains more carbon in solid solution, the width of the (110) and (220) lines was greater than for ordinary quench and temper treatments. Since tempering at 500°C decreased the strength from 240 to 170 kg/mm², the effects of cold working by drawing were examined as a means of obtaining better mechanical properties. With 75% deformation the yield stress rose to 240 kg/mm² with a reduction in area of 28 to 32%. Orig. art. has: 5 figures.

SUB CODE: 11/ SUBM DATE: 11Aug65/ ORIG REF: 005

Card 2/2 7 70

L 24518-66 EWT(m)/EWP(t)/EWP(k) IJP(c) JD/HW ACC NR: AP6009514 SOURCE CODE: UR/0413/66/000/005/0031/0031 AUTHOR: Kidin, I. N.; Shirbanyan, A. S.; Gokhberg, Ya. A.; Marshalkin, A. N.; Burkhanov, S. F.; Marschenko, V. Z.; Mizonov, Yu.M. ORG: none TITLE: Fabrication of steel wire. Class 18, No. 179348 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 31 TOPIC TAGS: steel wire, wire production, austenitizing, deformation. patenting, cold drawing ABSTRACT: An Author Certificate has been issued describing a method for producing steel wire, including electro-contact heating to austenitizing temperature, reduction, patenting, and cold drawing. In order to improve the mechanical properties of the wire and reduce the heat treating cycle, the wire deformation is carried out simultaneously with cooling down to 400-4500 followed by patenting in air. SUB CODE: 13/ SUBM DATE: 14Dec64/ cm 1/1 BLG UDC: 621.785.79:621.785.47:621.778.1

MARSHALKIN, G. A.

"Theory of Drive Mechanism for the Turret Head of High-Production Wrapping Machines." Sub 30 Jun 47, Moscow Technological Inst of the Food Industry

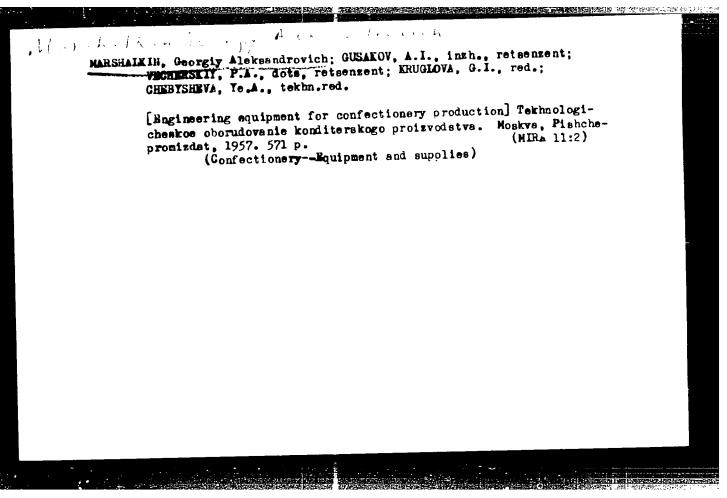
Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

MARSHALKIE, G.A., detsent, kandidat tekhnicheskikh nauk.

Cempacting checelate en vibrating machines. Trudy MTIFF 2:
463-471 '52. (MLRA 9:2)

(Checelate)



AVDEYEVA, A.V., doktor tekhn.nauk; ALEKHIN, S.F., inzh.; ALTUNDEHI, K.S., inzh.; HRONSHTEYN, I.I., kend.khim.nauk; BHUSHTEYN, M.S.; GRIGOR'YEV, F.B., inzh.; ZHELEZHOVA, V.V., inzh.; ISTOMINA, M.M., kend.tekhn.nauk; KOZLOV, S.A., inzh.; KOLESNIKOVA, V.K., inzh.; KOCHETKOV, I.A., inzh.; LUNIN, O.G., kend.tekhn.nauk; MANNINA, T.A., inzh.; SEREHRYAKOV, M.N., inzh.; SMOLYANITSKIY, M.Ye., inzh.; TYURIN, A.I., kend.tekhn.nauk; TSYBUL'SKIY, A.A., inzh.; CHERNOIVANNIK, A.Ya., inzh.; SHELOVSKAYA, A.Ye., inzh.; BEN', G.M., inzh., retsenzent; MARSHALKIN, G.A., kand.tekhn.nauk, retsenzent: GUSAKOV, A.I., red.; MANITNUV, M.I., kand.tekhn.nauk, red.; KHUGLOVA, G.I., red.; KISINA, Ye.I., tekhn.red.

[Confectioner's manual] Spravochnik konditera. Pod obshchei red. M.I.
Martynova. Moskva, Pishchepromizdat. Pt.2. [Technological equipment of
the confectionery industry] Tekhnologicheskoe oborudovanie konditerskogo proizvodstva. 1960. 630 p.

(Confectionery--Equipment and supplies)

GERNET, M.M., doktor tekhm.nauk, prof.; DIKIS, M.Ya., doktor tekhm.nauk, prof.; LUK'YANOV, V.V., doktor tekhm.nauk, prof. [deceased]: POPOV, V.I., doktor tekhm.nauk, prof.; SOKOLOV, A.Ya., doktor tekhm.nauk, prof.; SOKOLOV, V.D., doktor tekhm.nauk, prof.; BARANOVSKIY, N.V., kand.tekhm.nauk, dots.; BROYDO, B.Ye., kand.teknm.nauk, dots.; BUZYKIN, N.A., kand.tekhm.nauk, dots.; GOROSHENKO, M.K., kand.tekhm.nauk, dots.; GORTINSKIY, V.V., kand.tekhm.nauk, dots.; GREBENYUK, S.M., kand.tekhm.nauk, dots.; GUS'KOV, K.P., kand.tekhm.nauk, dots.; GREBENYUK, S.M., kand.tekhm.nauk, dots.; ZHISLIN, Ya.M., kand.tekhm.nauk, dots.; KARPIN, Ye.B., kand.tekhm.nauk, dots.; KOSITSYN, I.A., kand. tekhm.nauk, dots. [deceased]; GEYSHTOR, V.S., kand.tekhm.nauk, dots.; MARSHALKIN, G.A., kand.tekhm.nauk, dots.; MOLDAVSKIY, G.Ye., kand.tekhm.nauk, dots.; ODESSKIY, D.A., kand. tekhm.nauk, dots.; RUB, D.M., kand.tekhm.nauk, dots.; SKOBLO, D.I., kand.tekhm.nauk, dots.; RUB, D.M., kand.tekhm.nauk, dots.; SKOBLO, D.I., kand.tekhm.nauk, dots.; SHUVALOV, V.N., kand.tekhm.nauk, dots.; KHMEL'NITSKAYA, A.Z., red.; SOKOLOVA, I.A., tekhm. red.

[Principles of the design and construction of machinery and apparatus for the food industries] Osnovy rascheta i konstruirovaniia mashin i apparatov pishchevykh proizvodstv. Moskva, Pishchepromizdat, 1960.
741 p. (MIRA 14:12)

(Food industry—Equipment and supplies)

MARSHALKIN, G. A.

Doc Tech Sci - (diss) "Theory of estimation of technological equipmentation in confection enterprises." /Moscow/, 1961. 24 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Technological Inst of the Food Industry); 150 copies; price not given; (KL, 7-61 sup, 230)

BARNA, Yanosh [Barna, Janos], &., inzhener khimik; MARSHALKO, Bela [Marshalko Bela] inzhener khimik

Newer achievements in rheological tests of bentonite dispersions in water. Itsestiia Bany KI no.5:164-182 '61.

MARSHALKOVICH, D.B., polkovnik med. sluzhby

Ranid method for determining the crythrocyte sedimentation rate. Woen, med. zhur. no.2:80-81 F '57 (MIRA 12:7)

(BLOOD SEDIMENTATION, determination, rapid method (Rus))

MARSHALKOVICH, D.B., polkovnik meditsinskoy sluzhby

Use of colored stamsp in medical classification. Voen.-med.
zhur. no. 6:21-22 Je '60. (MIRA 13:7)

(MEDICINE, MILITARY)

MARSHALKOVICH, D.B., polkovnik meditsinskoy sluzhby; SACHENKO, N.L., podpolkovnik meditsinskoy sluzhby; BELOUSOV, G.G., podpolkovnik meditsinskoy sluzhby; NOVIKOV, I.I., mayor meditsinskoy sluzhby; PURMAN, M.A., mayor meditsinskoy sluzhby

Organization of work at a receiving and sorting section of a therapeutic hospital. Voen.-med. zhur. no.6:15-17 Je '61. (MIHA 14:8) (HOSPITALS) (RADIATION SICKNESS)

MARSHALKOVICH, D.B., polkovnik meditsinskoy sluzhby; SACHENKO, N.I., podpolkovnik meditsinskoy sluzhby; AZBUKIN, G.V., podpolkovnik meditsinskoy sluzhby; HELOUSOV, G.G., podpolkovnik meditsinskoy sluzhby; KITAYGORODSKIY, N.I., podpolkovnik meditsinskoy sluzhby; FILIPPOVICH, B.A., podpolkovnik meditsinskoy sluzhby

Rendering of emergency aid at the regimental medical aid station to persons poisoned with toxic organophosphorus substances.

Voen.-med. zhur. no.3:19-22 165. (MIRA 18:11)

MARSHALKOVICH, N.D.; UKHOV, A.Ya.

Phage typing of local typhoid fever cultures and its importance in epidemiological practice. Zhur. mikrobiol., epid. i immun. 41 no.3: 140-141 Mr '64. (MIRA 17:11)

1. L'vovskiy meditsinskiy institut.

MARSHALKOVSKIY, Yu.F.

A modernized pickup. Razved.i prom.geofiz. no.31:87-89 '59.
(MIRA 13:4)

(Oil well logging)

MARSHALL, R.; SZLASA, S.

Telex network. p. 337. (TELE-RADIO. Vol. 2, no. 7, July 1957, Warszawa, Poland)

SU, Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.

MARSHALL, R.

Equipment of a telegraph station. p. 364. (TELE-PADIO. Vol. 2, no. 8, Aug. 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

ANANOV, A.A.; MARSHANISHVILI, G.D.

Design of guard rails for small radius curves. Trudy GPI [Gruz.]
no.7:3-8 '63.

(MIRA 18:6)

MARSHANTYA, I. I.

Dissertation: "Influence of Doses of Mineral and Organic Fertilizers on the Growth and Development of Trifoliate (Buckbean) Seeds and Annual Lemon Plants." Cand Agr Sci, Georgian Order of Labor Red Banner Agricultural Inst, 28 May 54. Zarya Vostoka, Tbilisi, 18 May 54.

SO: SUM 284, 26 Nov 1954

PROSTAKOV, N.S.; GRIDUNOV, I.T.; MARSHAVINA, N.L.; RODIONOVA, V.G.

Synthesis of dithio[2,5-dimethyl-4-oxo(hydroxy)-l-piperidyl]carbamic acid and 1,2,5-trimethylthio-4-piperidone. Zhur.ob.khim. 34 no.2:467-469 F '64. (MIRA 17:3)

1. Universitet druzhby narodov imeni P.Lumumby i Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

L 063hh-67 EWP(1)/EWF(m) IJF(c) RM ACC NR: AP6030326 (A,N) SOURCE CODE: UR/0153/66/009/003/0491/0493 AUTHOR: Gridunov, I. T.; Prostakov, N. S.; Rodionova, V. G.; Marshavina, N. L.; Fomina, V. A. ORG: Department of Rubber Technology, Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Kafedra tekhnologii reziny, Moskovskiy institut tonkoy khimicheskoy tekhnologii); Peoples' Friendship University im. Patrice Lamumba (Universitet druzhby narodov) TITIE: Effect of 1,2,5-trimethyl-4-phenyl-A-didehydropiperidine on the plasticity of Nairit and the physicomechanical properties of its vulcanizates SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 491-493 TOPIC TAGS: polychloroprene, plasticizer, vulcanization, ROBBER ABSTRACT: The effect of 1,2,5-trimethyl-4-phenyl-A-didehydropiperidine (PD) admix- tures on the plasticity of Nairit rubbers subjected to identical milling at room tem- perature and the influence of heating time on the plastic properties of the rubbers (with and without PD) were studied. In addition, the effect of PD on vulcanizates of composition A (Nairit 100.0, zinc oxide 5.0, MgO 10.0, rosin 5.0, stearic acid 1.0 pt. by wt.) was also studied. It was found that as the PD content rises, the plasticity by wt.) was also studied. It was found that as the PD content rises, the plasticity		
ORG: Department of Rubber Technology, Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Kafedra tekhnologii reziny, Moskovskiy institut tonkoy khimicheskoy tekhnologii); Peoples' Friendship University im. Patrice Lumumba (Universitet druzhby narodov) TITLE: Effect of 1,2,5-trimethyl-#-phenyl-a-didehydropiperidine on the plasticity of Nairit and the physicomechanical properties of its vulcanizates of SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 491-493 TOPIC TAGS: polychloroprene, plasticizer, vulcanization, RUBBER ABSTRACT: The effect of 1,2,5-trimethyl-4-phenyl-a-didehydropiperidine (PD) admixtures on the plasticity of Nairit rubbers subjected to identical milling at room temperature and the influence of heating time on the plastic properties of the rubbers (with and without PD) were studied. In addition, the effect of PD on vulcanizates of composition A (Nairit 100.0, zinc oxide 5.0, MgO 10.0, rosin 5.0, stearic acid 1.0 pt. by wt.) was also studied. It was found that as the PD content rises, the plasticity by wt.) was also studied. It was found that as the PD content rises, the plasticity	NR: AP6030326 (A, N) SOURCE CODE: UR/0153/66/009/003/0491/0493	ļ ⁱ
ORG: Department of Rubber Technology, Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Kafedra tekhnologii reziny, Moskovskiy institut tonkoy khimicheskoy tekhnologii); Peoples' Friendship University im. Patrice Lumumba (Universitet druzhby narodov) TITLE: Effect of 1,2,5-trimethyl-4-phenyl-4-didehydropiperidine on the plasticity of Nairit and the physicomechanical properties of its vulcanizates of SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 491-493 TOPIC TAGS: polychloroprene, plasticizer, vulcanization, RUBBER ABSTRACT: The effect of 1,2,5-trimethyl-4-phenyl-4-didehydropiperidine (PD) admixtures on the plasticity of Nairit rubbers subjected to identical milling at room temperature and the influence of heating time on the plastic properties of the rubbers (with and without PD) were studied. In addition, the effect of PD on vulcanizates of composition A (Nairit 100.0, zinc oxide 5.0, MgO 10.0, rosin 5.0, stearic acid 1.0 pt. by wt.) was also studied. It was found that as the PD content rises, the plasticity by wt.) was also studied. It was found that as the PD content rises, the plasticity	HOR: Gridunov, I. T.; Prostakov, N. S.; Rodionova, V. G.; Marshavina, N. L.;	-
M. V. Lomonosov (Kafedra tekhnologii reziny, roskovsky lamumba (Universitet druzhby tekhnologii); Peoples' Friendship University im. Patrice Lamumba (Universitet druzhby narodov) TITLE: Effect of 1,2,5-trimethyl-4-phenyl-4-didehydropiperidine on the plasticity of Nairit and the physicomechanical properties of its vulcanizates SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 491-493 TOPIC TAGS: polychloroprene, plasticizer, vulcanization, ROBBER ABSTRACT: The effect of 1,2,5-trimethyl-4-phenyl-4-didehydropiperidine (PD) admixtures on the plasticity of Nairit rubbers subjected to identical milling at room temperature and the influence of heating time on the plastic properties of the rubbers (with and without PD) were studied. In addition, the effect of PD on vulcanizates of composition A (Nairit 100.0, zinc oxide 5.0, MgO 10.0, rosin 5.0, stearic acid 1.0 pt. by wt.) was also studied. It was found that as the PD content rises, the plasticity by wt.) was also studied.	na, v. A.	
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ACC NR: AP6030326

chloroprene is much higher than the rate of oxidative-destructive processes. PD has an appreciable effect on the physicomechanical properties of the vulcanizates. As its content increases, the moduli, tensile strength and tearing strength decrease somewhat. It is apparent that during the vulcanization of Nairit in the presence of PD, not only -C-C- and +C-O-C- bonds, which strengthen the vulcanizates, are formed, but in addition, bonds like those of quaternary ammonium salts (which do not strengthen the vulcanizate) may be formed, causing the observed decrease in strength characteristic. Other things being equal, this process is much slower in the presence of ZnO than in the presence of MgO. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 06Jul64/ ORIG REF: 001

Card 2/2 MLE

MARSHAVINA, Z. V. --

WBiological Characteristics of Some Species of the Dandelion Genus." Cand Biol Sci, Inst of Plant Physiology, Acad Sci USSR, Moscow, 1953. (RZhBiol, No Li Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

PANOSTAN, A.K.; AMUTTUNYAN, R.Sh.; MARSHAVINA, Z.V.

Effect of metabolites of certain soil micro-organisms on the growth and development of plants. Dokl. AN Arm. SSR 31 no. 2 117-121 '60. (MIRA 13:11)

1. Sektor mikrobiologii Akademii nauk Armyanskoy SSR.
2. Ghlen-korrespondent AN Armyanskoy SSR (for Panosyan). (Soil micro-organisms) (Plant physiology)

PANOSYAN, A.K.; MARSHAVINA, Z.V.; ARUTYUNYAN, R.Sh.

Reflect of metabolites of some soil micro-organisms on the growth and development of plants. Trudy Inst. mikrobiol. no.11:275-283 '61 (MIRA 16:11)

1. Sektor mikrobiologii AN Armyanskoy SSR.

MNDZHOYAN, A.L.; CHAYLAKHYAN, M.Kh.; MARSHAVINA, Z.V.

Effect of some indole derivatives on root formation in plants. Izv. AN Arm. SSR. Biol. nauki 14 no.3:3-7 Mr '61. (MIRA 14:3)

1. Institut tonkoy organicheskoy khimii AN ArmSSR.
(INDOLE) (GROWTH PROMOTING SUBSTANCES)

```
PAIOSYAN, A.L.; ARUTTANTAI, R.Sh.; LALERAVINA, Z.V.

Effect of soil bacteria on the growth and development of corn and tobacco. Dohl. AN Art 551-33 no.2:73-77 '61.

(MIRA 14:10)

1. Chlen-korros ondent of Armyanskoy SSR (for Panosyan).

(Soil micro-or primes)

(Tobacco) (Corn (Maise)
```

PANOSYAN, A.K.; ARUTYUNYAN, R.Sh.; MARSHAVINA, Z.V.

Effect of the metabolites of soil micro-organisms, heteroackin and gibberellin on the growth and chemical composition of plants.

Vop. mikrobiol. no.2:39-58 '64. (MIRA 18:3)

MOCHALIN, M.P., kand.tekhn.nauk; MARSHEV, A.S., inzh.; YAKOVLEV, V.G., inzh.

SBU-2 and SBu-4 self-propelled drilling rigs. Gor. zhur.
no.6:56-58 Je '62.

1. Institut gornogo dela im. Skochinskogo (for Mochalin).
2. TSentrel'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo shakhtnogo stroitel'stva, Moskva (for Marshev, Yakovlev).

(Boring machinery)

WARSHEV, M.A., podpolkovnik med.slushby

Use of quinacrine in influenza, Voen.med.zhur, no.12:77 D'57
(QUINACRINE)
(IMPLUENZA)

MARSHEV, N. I

ZHUKOV, Vasiliy Andreyevich; MESYATSEV, P.P., retsenzent; LICHNOV, A.I., inzh., retsenzent; SHIROKOVA, Z.G., inzh., retsenzent; GUREVICH, B.D., inzh., retsenzent; BASTANOV, S.S., inzh., retsenzent; GOLOVINA, K.N., inzh., retsenzent; BEL'TSEV, A.N., inzh., retsenzent; solomatin, V.V., inzh., retsenzent; MARSHEV, N.I., inzh., retsenzent; BAIASHEVA, T.I., inzh., retsenzent; GIRSHMAN, G.Kh., red.; ANGELEVICH, N.E., red.; SOBOLEVA, Ye.M., tekhn.red.

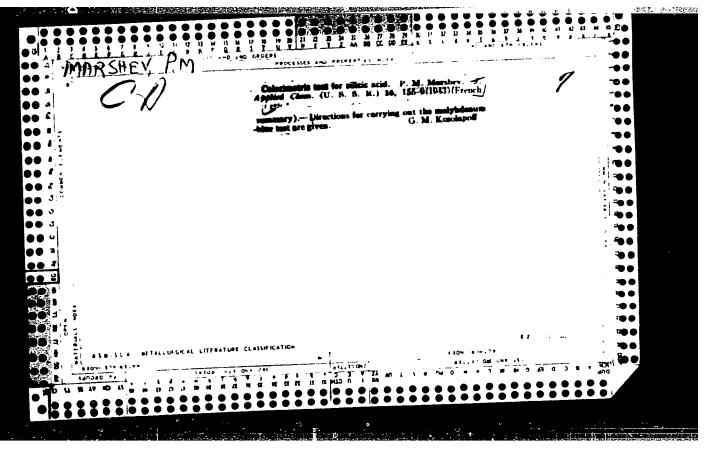
[Technology of the manufacture of radio equipment] Tekhnologiia proizvodatva radioapparatury. Moskva, Gos.energ.izd-vo, 1959. (NIRA 13:3)

(Radio industry)

MARSHEV, P.M.

Micromethod for the determination of glycerol. Lab. delo no.10:601-604 '64. (MIRA 17:12)

1. Kafedra biokhimii Kuybyshevskogo meditsinskogo instituta.



MARSHEV, P. M.

Marshev, P.M. "Method of detecting fat," Trudy Kuybyshevsk. gos. med.
in-ta, Vol. I, 1948, p. 282-88

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

MARSHEV, P.M.; KAPIANSKIY, S.Ya., redaktor; GABERIAND, M.I., tekhnicheskiy

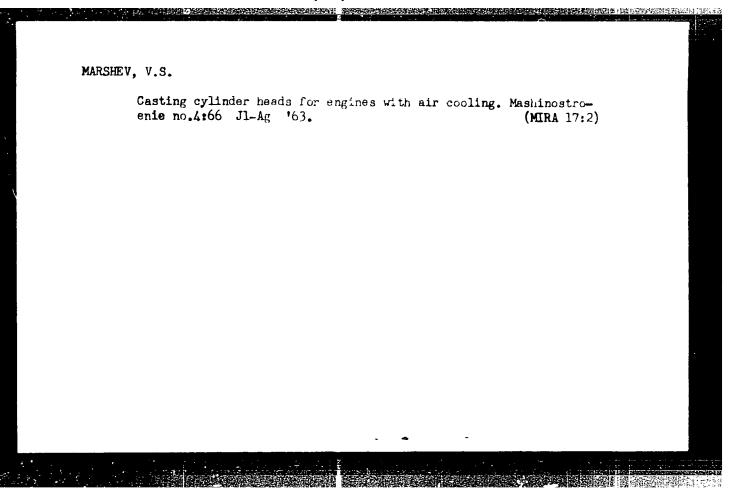
[Manual of practical exercises in physical and colloidal chemistry] Rukovodstvo k prakticheskim saniatiiam po fizicheskoi i kolloidnoi khimii. Moskva, Gos.izd-vo med.lit-ry, 1954. 146 p. (MIRA 7:11) (Chemistry, Physical and theoretical)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032530008-9"

MERSHEW, J. F.

Marchew, S. P. Wom the etermination of massic linears for the ejecution of the resembling plants, Fest. in serve, ite. 1, 10. 1, 10. 1-10.

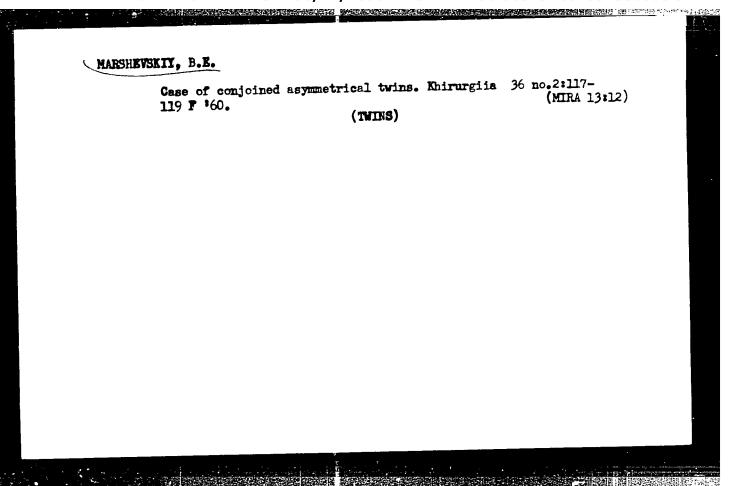
SO: 1-10. 1, E. Feb. 1, To o i. 1 Th rm 1 Mighh States, T. . . , 174).



MARKOVICH, Nikolay Mikhaylovich; MARSHEV, Valeriy Samuilovich; ZVANSKIY, Grigoriy Yefimovich; MEDVEDEV, 1.F., kand. tekhn. nauk, retoenzent

[Rotary percussion machinery for drilling holes] Vrashchatel'no-udarnye ustanovki dlia bureniia shpurov. Foskva, Izd-vo "Nedra," 1964. 157 p. (MIRA 17:6)

Diamondless dressing of grinding wheels on thread-gridning machines. Stan. i instr. 26 no.7:29-31 Jl '55. (MLMA 8:9) (Grinding wheels)



。 第一章 1987年 - 1988年 -

MARSHEVSKIY, B. E. (g. Gor'kly, 57, ul. Beketova, d. 5, kv. 7)

Two observations of congenital right-sided hernia of the cupula of the diaphragm in children. Grud. khir. no.5:115-117 '61. (MIRA 15:2)

1. Iz kafedry detskoy khirurgii (zav. - prof. A. A. Ozherel'yev)
Gor'kovskogo meditsinskogo instituta imeni S. M. Kirova (dir. kandidat meditsinskikh nauk I. F. Matyushin) na baze khirurgicheskogo
otdeleniya Detskoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach
Ye. G. Krupko).

(DI APHRAGM-_HERNIA)

8(6), 14(6)

SOV/91-59-10-6/29

AUTHOR:

Marshevskiy V.I., Engineer

TITLE:

Deterioration of Dummy Piston Packings of Steam Turbines

PERIODICAL: Energetik, 1959, Nr. 10. pp 14-16, (USSR)

ABSTRACT:

electric power statur. Since 1930 at the Uzhgorod there have been two turbines of the firm here. Moravs ka, 2500 kw capacity, 18 atm, 3500C, 3000 r.p.m. The turbines are provided with the dumry pistor type packing where the piston is made of steel and the ring of cast iron. In 1957, turbine Nr. 1 was in capital repair which meant a partial replacement of the dummy riston packing ring whiskers. After 7 hours of work, the turbine had to be stopped owing to the appearance of an extraordinary vibration followed by sparking and deterioration of the insulation of steam-conducting pipes. Upon examination deterioration of the dammy plata packing with a specific one-sided melting of the piston was established (Figs 1 and 2). In 1958, an analogous damage with the turbine Nr. 2 took place. Research of both cases has led to be lieve that in both cases the causes of packing deteri-

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SOV/91-59-10-6/29

Deterioration of Dummy Piston Packings of Steam Turbines

oration might be: 1) Wrong construction of grooves used for packing whiskers in the ring, without a dove-tall but of a rectangular section; 2) Inadequate material of wire fastening the whiskers in the ring grooves The wire used was of steel 1-Kh-13 which has a considerably larger coefficient of expansion than common steel 3. 3) Absence of slots along the wire length, which prevented its extension in the grooves and resulted in its bulging and slipping out of the grooves. In order to elimi nate such damage, the author recommends using non-resilient steels for packings, such as St. 3. The editors, however, criticize some of the author's conclusions by maintaining: 1) A rectangular groove section is adopted by many turbine-building plants and proved to be quite satisfactory; 2) Steel 1-Kh-13 has a coefficient of 11near expansion nearly the same as St 3 even a little smaller; 3) Absence of slots does not entail buiging of wire, provided the process of heating passes gradually In the editor's opinion, the described damage might happen from two causes: 1) Insufficient rolling of the wire in the grooves, and 2) insufficient size of radial clearances of packings tolerated during turbine repair There are 2 photographs.

Card 2/2

DASHCHENKO, I. T.: MARSHEVSKIY, V. I.

Installation of low-voltage power transmission lines in districts with current construction of individual dwellings. From. energ. 15 no.10:39-41 0 '60. (MIRA 13:11) (Transcarpathia--Electric power distribution)

MARSHEVSKIY, V.Ye.

Case of isolated invagination of the appendix in a 6-year-old child. Khirurgiia 37 no.28136-137 P 161. (MIRA 1481)

1. Iz khirurgicheskogo otdeleniya (zav. I.S. Vasilenko) Zadonskoy bol'nitsy (glavnyy vrach A.S. Koltakov). (APPENDIX--DISRASES)

SOV/163-58-1-12/53

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就会会会会会会会。 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们

Baymakov, Yu. 7., Shkolinikov, S. H., Syroverin A 3 AUTHORS:

Marshikova. A.

The Transition of Iridium in the Cathode Letal in the Electro TITLE:

lytic Refining of Copper and Nickel (Perekhod iridiya v katodnyy metall pri elektroliticheskom rafinirovanii medi i

nikelya)

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, PERIODICAL:

Nr 1, pp 55-61 (USSR)

By using radioactive isotopes the refining process of electro-ABSTRACT:

lytic copper and nickel was investigated. In electrolytic copper and nickel always gold, silver, and platinum elements occur, viz. gold and silver in quantities of 0,001 % and

platinum in a quantity of 0,00001 %.

The behavior of iridium in the electrolytic refining of copper and nickel was investigated. The radioactive iridium isotope ${\rm Ir}^{192}$ was used as indicator. In the electrolysis of copper and nickel the concentration of iridium in copper approaches (6 : 20)405 %. Usually in the electrolytic re

fining of copper from sulfate solutions with a density of Card 1/3

sov/163-58-1-12/53

The Transition of Iridium in the Cathode Metal in the Electrolytic Refining of Copper and Nickel

100-200 A/m² the iridium content in the cathode amounts to $(1+9).10^{-7}$ %. In the electrolytic refining of nickel from pure sulfate solutions at a temperature of 50°C and a current density of 100-300 A/m² the iridium content in the cathode amounts to $(5+9).10^{-7}$ %.

In sulfate solutions containing chloride ions and in ; rechloride solutions the iridium content in the cathode amounts to (1 + 3).10⁻⁴ % The other platinum metals react similarly to iridium.

In the electrolysis of copper, iridium ion is formed by the following reaction:

Ir + 2 Cu + \longrightarrow Ir + 2 Cu + 2 Cu + 2

To produce metals of highest purity and with a minimum content of iridium the authors recommend using anode diaphragms in the analysis and carrying out the electrolysis of nickel at higher temperatures and that of cop; er at lower temperatures. There are 11 tables and 1 reference, 1 of which is Soviet.

Card 2/3

SOV/163-59-1-12/5

The Transition of Iridium in the Cathode Metal in the Electrolytic Re-

fining of Copper and Nickel

ASSOCIATION: Leningradskiy politekhnicheskiy institut

(Leningrad Polytechnical Institute)

SUBMITTED: October 1, 1957

Card 3/3

(MIRA 13:3)

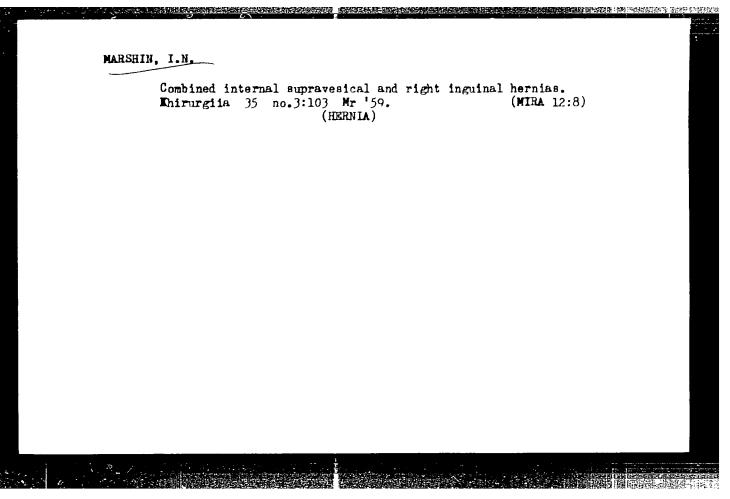
ANDREYEV, A.S.; MARSHIKOVA, A.; TELYATNIKOV, G.V.

Determination of magnesium and calcium in primary aluminum and aluminous materials (bauxites). Trudy LPI no.201:51-55

159.

(Magnesium-Analysis) (Calcium-Analysis) (Bauxite)

MARSHIN, I.N. A complex bullet wound of the abdomen. Vest, khir. 81 no.12:83-94 (MIRA 12:2) 1. Iz N-skoy voskovoy chasti. (ABDOMEN, wds. & inj. gunahot (Rus))



17(1)

SOV/20-126-6-66/67

AUTHORS:

Lobashev, M. Ye., Savvateyev, V. B., Marshin, V. G.

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TITLE:

Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reflex (Adaptatsiya k bezuslovnomu razdrazhitelyu v protsesse obrazovaniya uslovnogo refleksa)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1385-1388

(USSR)

ABSTRACT:

Usually the adaptation process of the animal organism in the ontogenesis is regarded as the result of two systems of reflex activity: conditioned and unconditioned. However, the interrelation of these two systems is a complex combination of the adaptation processes taking place, according to their rechanism, synchronously or asynchronously. The reflex adaptation changes are conditioned by a system of combinations which is closed at the central end of the analyzer. At the same time an adaptation to each of the individual stimuli, both conditioned and unconditioned, in the receptors of the peripheric part of the analyzer is possible. Here a coupled adaptation to two or more simultaneous stimuli can come about. By including the conditioned-reflex activity into the adaptation process of the organism in the

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Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reflex

SOV/20-126-6-66/67

phylogenetic series the influence of external agents becomes a coupled influence, according to the principle of conditioned reflexes. For these reasons it is necessary to consider the differences in the mechanisms of adaptation to unconditioned stimuli and adaptation coming about according to the principle of conditioned reflexes. When a defence reflex is worked out with the support of an electric current, an adaptation to the latter occurs after a number of applications. As the number of combinations increases, the stimulus threshold is changed, and the intensity of the support must be increased. This increase is necessitated by the fact that the level of excitation in the unconditioned center has to be increased for the purpose of developing and fastening the conditioned reflex. (hefs 1-3). In the experiments carried out by the authors with fish a conditioned reflex - cessation of respiration caused by a light stimulus supported by increased water temperature - was developed. As the number of combinations was increased, the reaction of the adaptation of the movement of the gill cover to both conditioned and unconditioned reflexes was included in the study; with each combination the temperature threshol! was recorded at which respiration ceased. With the increasing

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Adaptation to an Unconditioned Stimulus in the Process of the Formation of a Conditioned Reflex

501/20-126-6-66/67

number of combinations these data rendered it possible to study the duration and character of the signal effect of the light and to observe the adaptation dynamics of the fish to an unconditioned stimulus. The raising of the temperature 'hreshold at which respiration ceased served as an index of the increase in resistance to temperature due to adaptation. It was found in the case of the tench (Tinca tinca L.) that the orientation reaction appears in the form of a slowing of the gill cover movement or a complete cessation of respiration if lit with 2 lamp of 40 watts and up. The rate of extinction of the orientation reflex proved to be a function of the intensity of the light stimulus. This is in complete agreement with the "Law of the Intensity" found for the rate of formation of conditioned reflexes. Experiments carried out in a number of variants with ten fish yielded identical results. At the beginning of the experiment, when the conditioned reflex to lamp light is developed, respiration stops as soon as the water temperature has reached 22-24°. With an increase in the number of combinations an adaptation to temperature comes about and the threshold at which respiration stops is raised to $71-12^{\circ}$.

Card 3/4

Adaptation to an Unconditioned Stimulus in The Process of the Formation of a Conditioned Reflex SOV/20-126-6-66/67

in some animals even 34°. It therefore becomes necessary, in developing the conditioned reflex as a light stimulus with the support of temperature, to increase whe temperature for the following combinations, as soon as the temporary combination has become fixed, i.e., as soon as the light stimulus combined with a high temperature has attained the significance of a signal (after 19-20 combinations) the cessation of respiration was adapted to the signal agreed upon for all different water temperatures (Fig 1). 2 adaptation mechanisms can be clearly distinguished. They do not preclude one another, but are complementary. They are called "unconditioned - reflex" and "conditioned - reflex adaptation" by the author. There are 1 figure and 3 Soviet references.

ASSOCIATION: Institut fiziologii im. I. P. Favlava Akademii nauk SSSR

(Institute of Physiology imeni I. P. Pavlov, Academy of Sciences,

USSR)

PRESENTED:

November 10, 1950, by K. M. Bykov, Academician

SUBMITTED:

October 28, 1958

Card 4/4

LOBASHEV, M.Ye.; KASIMOV, R.Yu.; MARSHIN, V.G.

Inheritance of some characteristics of higher nervous activity in interspeciation hybridization. Izv. AN SSSR. Ser. biol. 27 no.1:56-69 Ja-F 162. (MIRA 15:3)

1. Physiological Institute, Academy of Sciences of the U.S.S.R., Leningrad.

(HYBRIDIZATION)
(NERVOUS SYSTEM-FISHES)

MARSHIN, V.G.

Defensive conditioned reflexes in sturgeons. Zool. zhur. 41 no.5:721-723 My 'o2. (MIRA 15:0)

1. Laboratory of Physiology of Lower Animals, Institute of Physiology, Academy of Sciences of the U.S.S.R., Leningrad. (Conditioned response) (Sturgeons)

MARSHIN, V.G.

Effect of the ecologic specialization of nervous activity on the behavior of fishes. Vop. ekol. 5:128-129 '62. (MIRA 16:6)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad. (Fishes--Behavior) (Nervous system-+Fishes)

PONOMARENKO, V.V. MARSHIV, V.T., CHARLES OF the higher nervent activity in interversetal and interspecific reciprocal crosses.

Issl. po gen. no.2:8-20 %4.

KIRA 1947

Recomment of reaction to light stimulants in early ontoredy of some species of numbers and their hybrids. Naush. sook. Inst. fiziol. - N. SUSR nc. 3:55-59 - 165.

1. Cruppa fiziology, nightly bitvatnykh (pay. - N. S.) [attention fiziology] meno Payroya (N. S.) R.

Instituta fiziology] meno Payroya (N. S.) R.

Omparative study of an transfer of

omparative along of in threadition of the relation to the mose of the formation of conditioned of the earlier alongs of attached and wheir reciprocal mybridi in unitageny. We want 4.00.150-1526-1530 (MEALTROOP)

u. Lauramoniya fiz. 10g., n., t. r. zn vetnyst instituta fiziclogii AN U.Sk, teninggad

MARSHININA, G. G.

PA 29/49T89

USSR/Mining Equipment Belts, Conveyor Aug 48

"Transporting Coal in Belt Conveyers in Open-Pit Mining in the Urals," G. G. Marshinina, 3 pp First page is missing.

"Mekh Trud 1 Tyazh Rabot" No 8

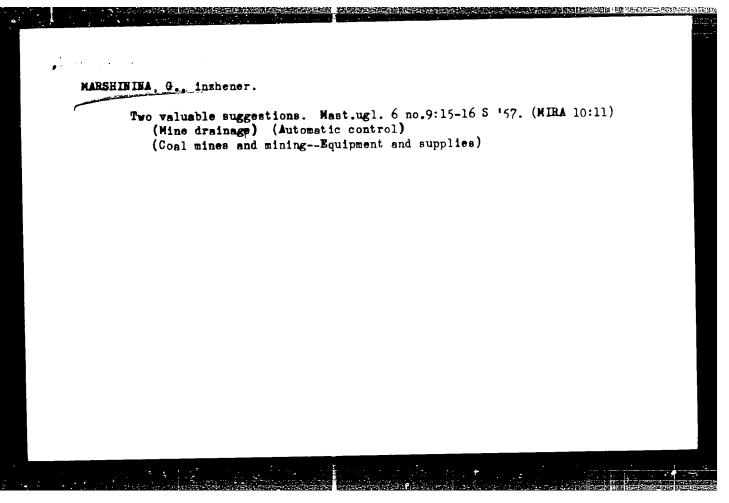
Sketches conveyer-belt installations at Vakhrushevugol' Trust. Describes type of links for the belt. Sketches the treatle which supports the belt. Operations have proved satisfactory. Makes recommendations for future conveyer-belt installations.

29/49789

MARSHININA.G. inzhener

Anhievements of efficiency workers in the Urals. Mast. ugl. 4
ne.2:23 F 155.

(Ural Mountain region-Coal mines and mining)



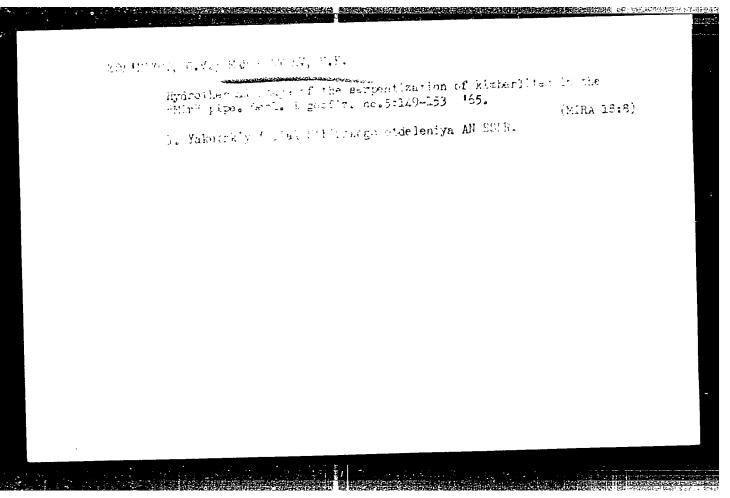
MARSHININA, G., inzh.

Efficiency promoters in the Ural mines. Mast. ugl. 8 no.11:12
(MIRA 13:2)
U *59.
(Ural Mountains--Coal mines and mining--Equipment and supplies)

ZOL'N'ROV. G.V.; Michard Print, V.K.

Lumbilar rain'th The the 'Mar' sipe. Geol. 1 genile. Total: (MIRA 18:6)

2. Yakutak'; filled with tekogo oudeleniya AN Star.



ADTRON: Rotenberg, A. G., Candidate of Technical Sciences; Marabov, V. M., Engineer

TITLE: New designs of level relays |

PERIODICAL: Rholocil'mays technica, no. 2, 1963, 10-13

TEXT: Tow new types of two-position level relays - PRO-2 with bell floating picking and FEMI-2/swith commontmentation picking - have been developed at the Vascoyumnyy nauchon-issladovatel'ssiy institut kindedil'ney promyshlemnosti (All-Union Scientific Research Institute of the Cold Storage Industry). A sociafied version of type PTR-2/storagerature relays is used as a sendominator amplifier for both salays, Schmattic diagrams of the relays, are presented in Pigures 2 and 4 of enclosures 1 and 2 respectively. Both relays were tested for mechanical strength as well'as in a medium of liquid and gaseous sendanced in Pigure 3 of enclosure 3. These results of the latter test are semanticed in Pigure 3 of enclosure 3. These results show [that the resistance of securing waper 1s 90 times higher than that of liquid assession. Soth relays are recommended for use with assession, freen,